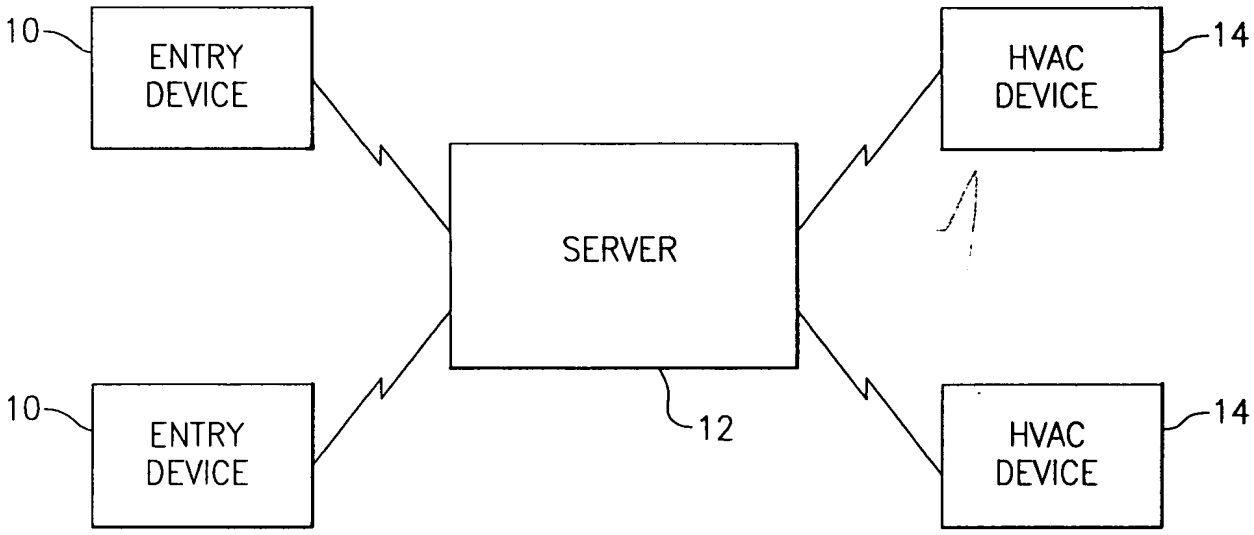
10
ENTRY DEVICE
10
ENTRY DEVICE
SERVER
12
HVAC DEVICE
14
HVAC DEVICE
14

FIG.1

09/30/2003 08:54:00

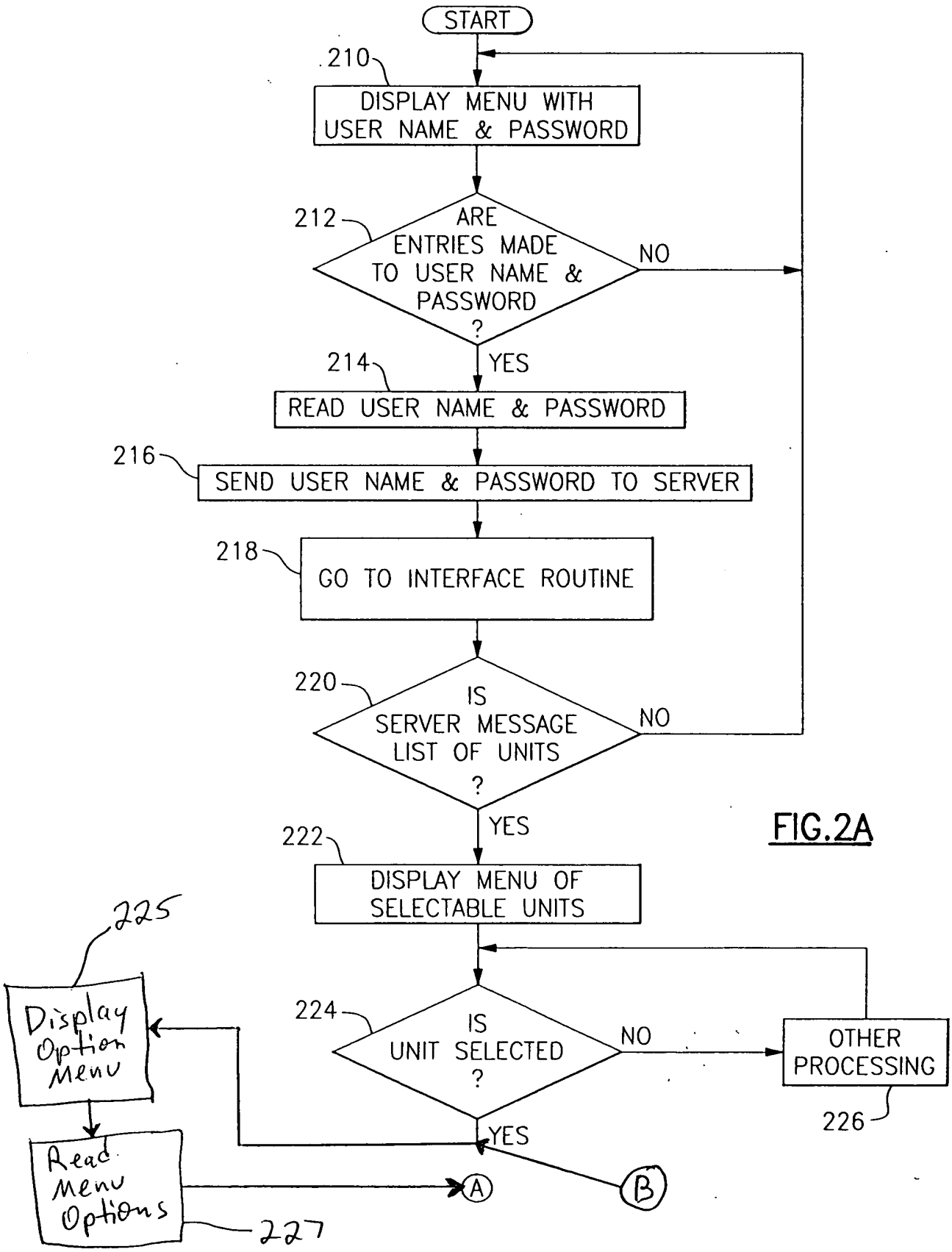

FIG.2A

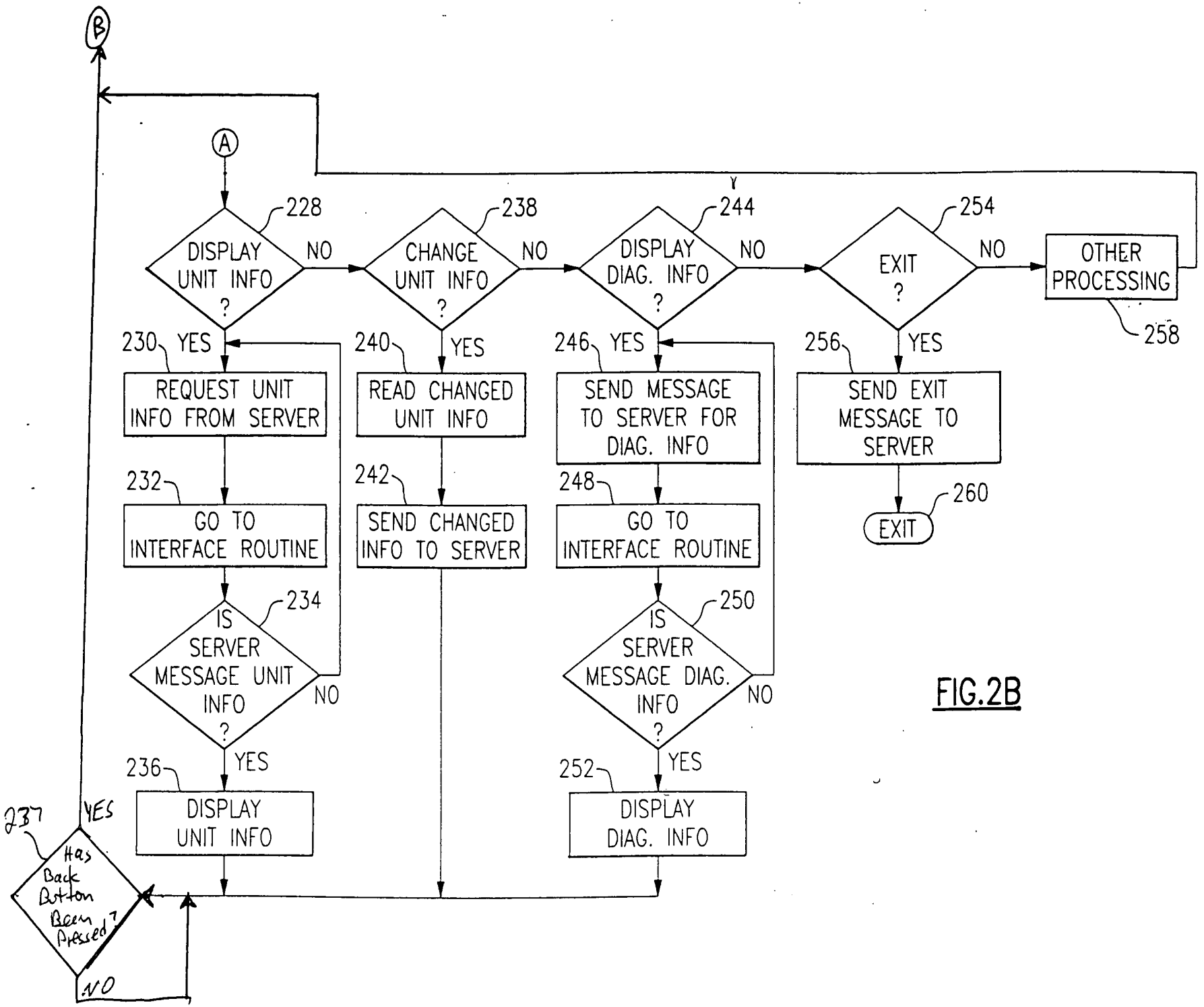
B
A
228
DISPLAY UNIT INFO ?
NO
238
CHANGE UNIT INFO ?
NO
244
DISPLAY DIAG. INFO ?
NO
254
EXIT ?
NO
OTHER PROCESSING
258
230 YES
REQUEST UNIT INFO FROM SERVER
232
GO TO INTERFACE ROUTINE
234
IS SERVER MESSAGE UNIT INFO ?
NO
YES
236
DISPLAY UNIT INFO
240 YES
READ CHANGED UNIT INFO
242
SEND CHANGED INFO TO SERVER
246 YES
SEND MESSAGE TO SERVER FOR DIAG. INFO
248
GO TO INTERFACE ROUTINE
250
IS SERVER MESSAGE DIAG. INFO ?
NO
YES
252
DISPLAY DIAG. INFO
256 YES
SEND EXIT MESSAGE TO SERVER
260
EXIT
237
Has Back Button Been Pressed ?
YES
NO

FIG.2B

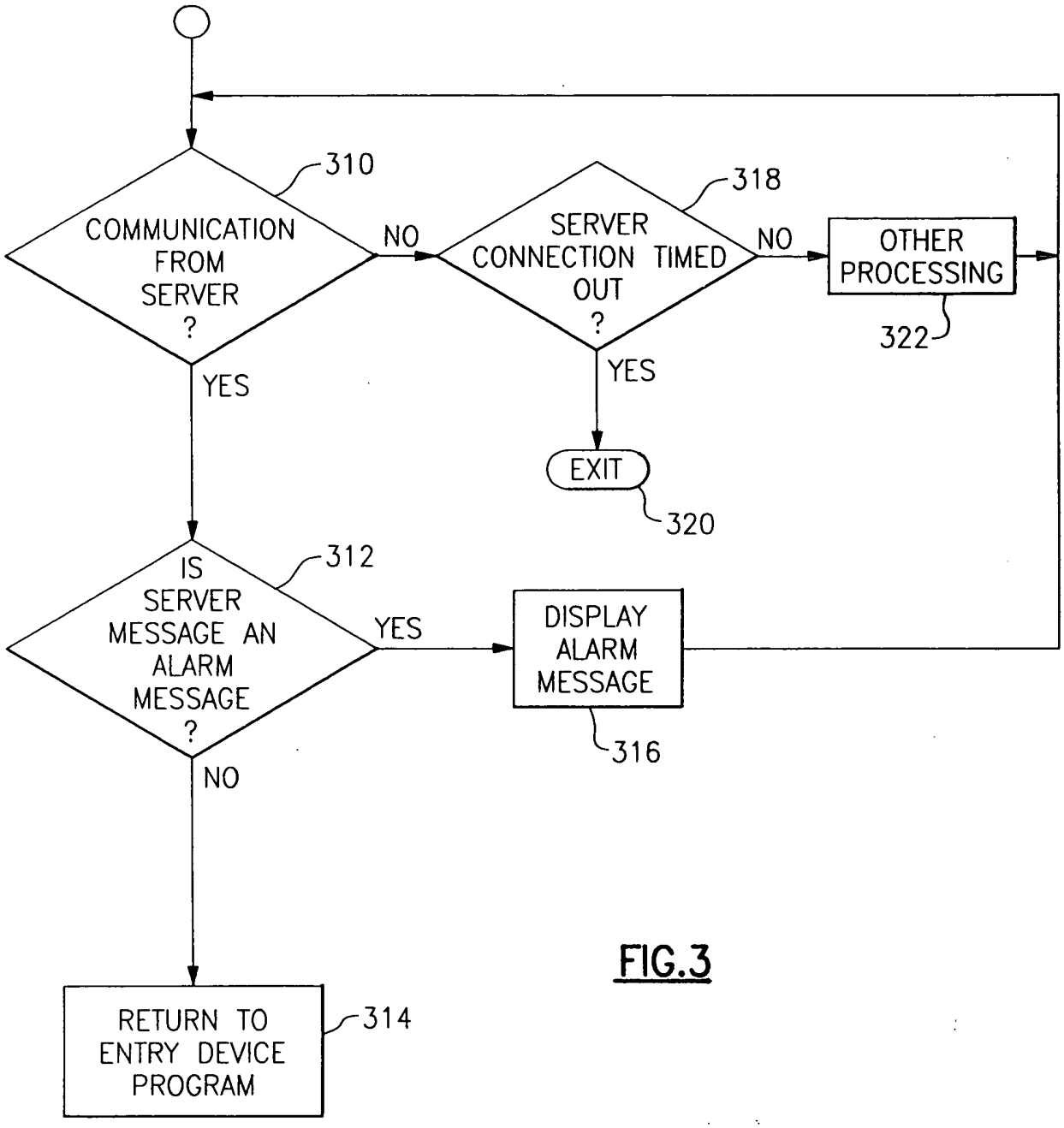

FIG.3

EP 0 556 954 A2

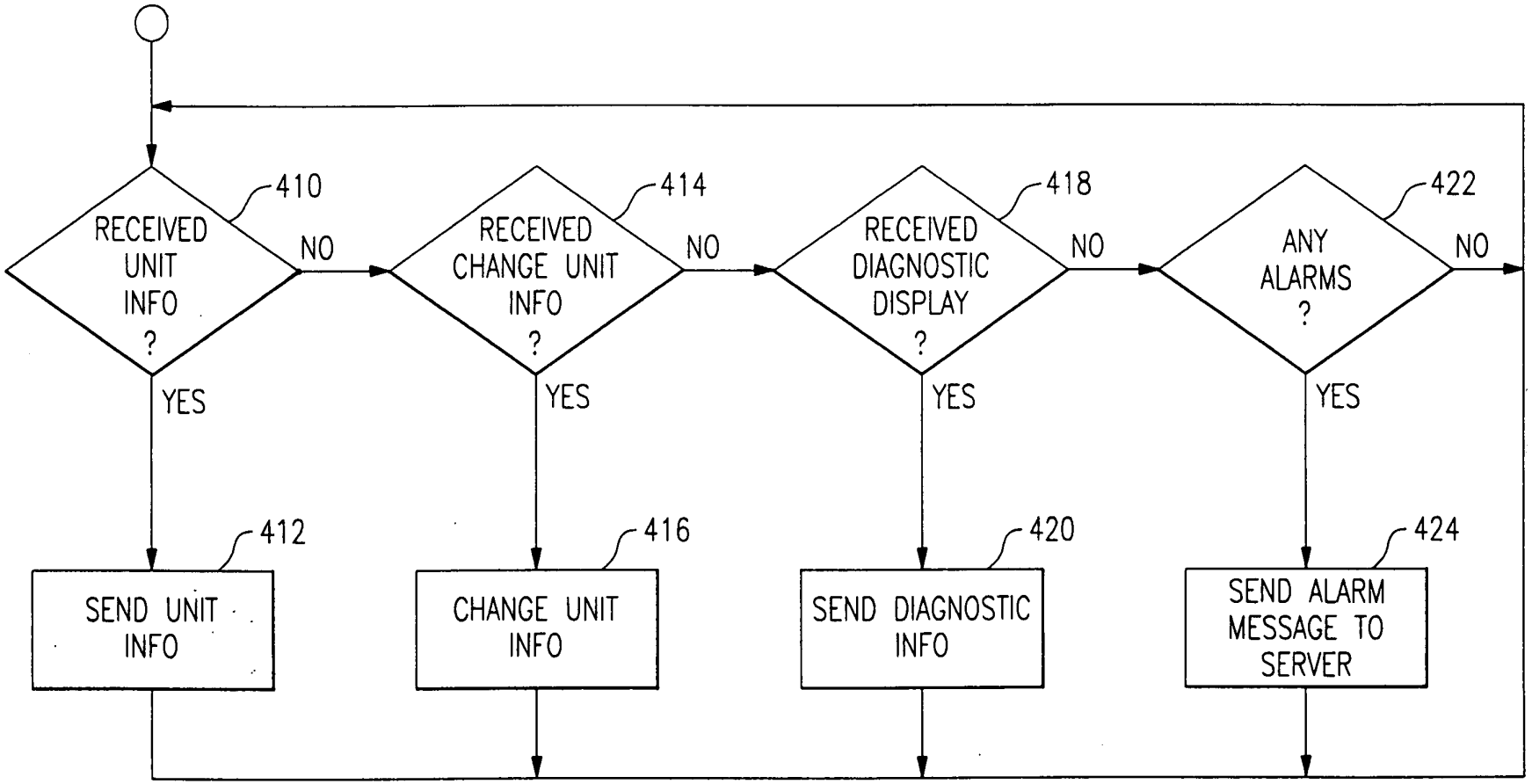
RECEIVED UNIT INFO ?
410
NO
YES
RECEIVED CHANGE UNIT INFO ?
414
NO
YES
RECEIVED DIAGNOSTIC DISPLAY ?
418
NO
YES
ANY ALARMS ?
422
NO
YES
SEND UNIT INFO
412
CHANGE UNIT INFO
416
SEND DIAGNOSTIC INFO
420
SEND ALARM MESSAGE TO SERVER
424

FIG.4

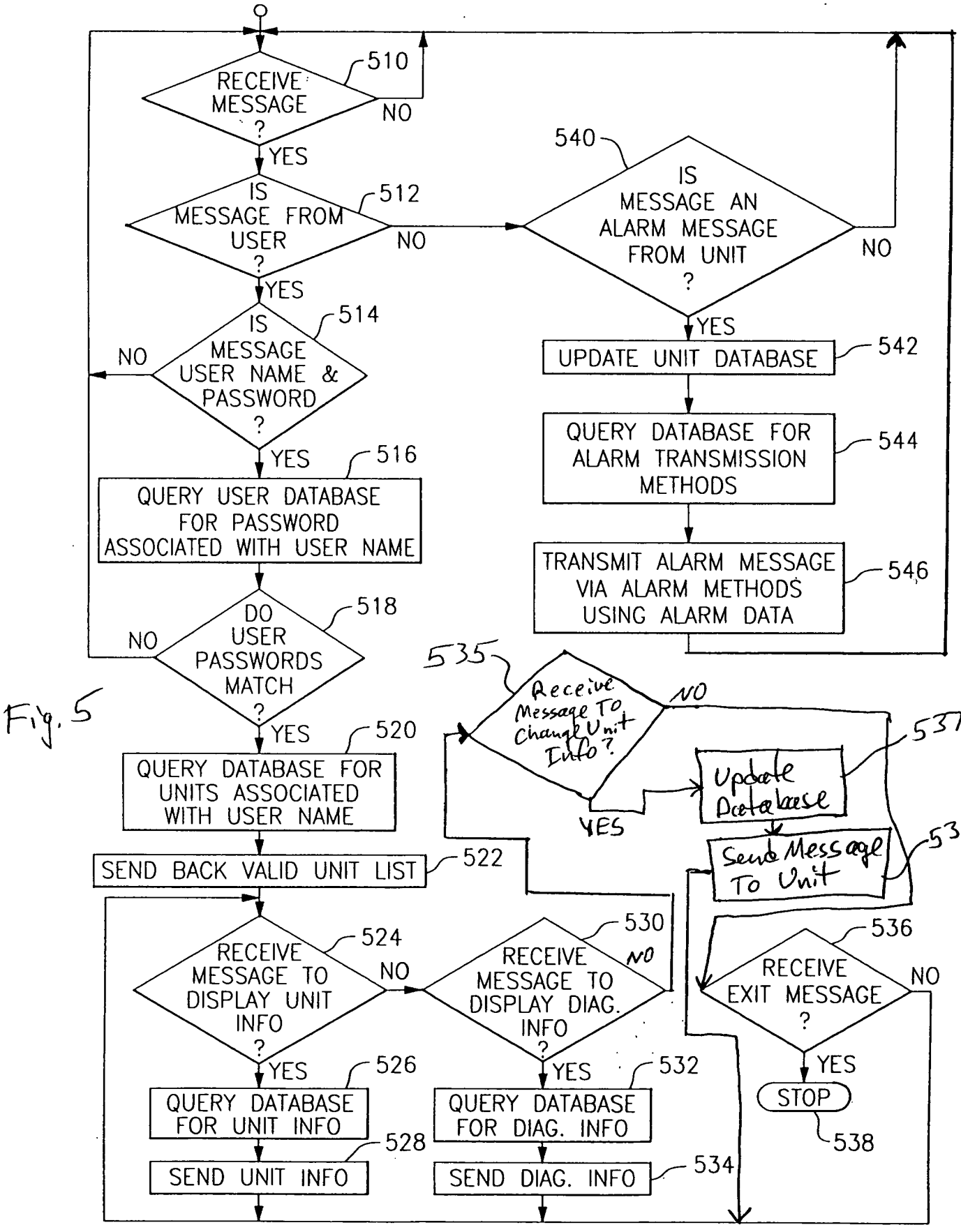
RECEIVE MESSAGE ?
510
NO
YES
IS MESSAGE FROM USER ?
512
NO
YES
IS MESSAGE USER NAME & PASSWORD ?
514
NO
YES
QUERY USER DATABASE FOR PASSWORD ASSOCIATED WITH USER NAME
516
DO USER PASSWORDS MATCH ?
518
NO
YES
QUERY DATABASE FOR UNITS ASSOCIATED WITH USER NAME
520
SEND BACK VALID UNIT LIST
522
RECEIVE MESSAGE TO DISPLAY UNIT INFO ?
524
NO
YES
QUERY DATABASE FOR UNIT INFO
526
SEND UNIT INFO
528
RECEIVE MESSAGE TO DISPLAY DIAG. INFO ?
530
NO
YES
QUERY DATABASE FOR DIAG. INFO
532
SEND DIAG. INFO
534
IS MESSAGE AN ALARM MESSAGE FROM UNIT ?
540
NO
YES
UPDATE UNIT DATABASE
542
QUERY DATABASE FOR ALARM TRANSMISSION METHODS
544
TRANSMIT ALARM MESSAGE VIA ALARM METHODS USING ALARM DATA
546
Receive Message To Change Unit Info ?
535
NO
YES
Update Database
537
Send Message To Unit
539
RECEIVE EXIT MESSAGE ?
536
NO
YES
STOP
538

Fig. 5

USER DATABASE

USER NAME	PASSWORD	UNIT 1	UNIT 2	•••	UNIT N
CARRIER 1	123456	OFFICE	MILAN	•••	FRANCE
CARRIER 2	654321	LOBBY	MILAN	•••	

Fig. 6

UNIT DATABASE

UNIT NAME	UNIT PHONE #	POWER	MODE	ROOM TEMP	SETPOINT	FAN SPEED	LOUVER	TIMER	DIAGNOSTIC	ALARM METHOD 1	ALARM DATA 1
OFFICE	(123)456-7890	ON	HEAT	22	22	LOW	1	OFF	NONE	E-MAIL	XYZ@CARRIER.UTC.COM
MILAN	(234)567-8901	OFF	OFF	23	22	OFF	HOME	OFF	NONE	PHONE	(555)123-4567
FRANCE	(345)678-9012	ON	COOL	24	22	MEDIUM	6	OFF	NONE	E-MAIL	XYZ@CARRIER.UTC.COM
LOBBY	(456)789-0123	ON	FAIL	25	22	OFF	HOME	OFF	ROOM AIR	SMS	(555)234-5678

Fig. 7